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CENTRAL INTELLIGENCE AGENCY
SECURITY INFORMATION

INFORMATION REPORT

REPORT NO.

CD NO.

COUNTRY USSR (Kalinin Oblast)

DATE DISTR. 11 March 1952

SUBJECT Hydroelectric Power Plant in Uglich

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SUPPLEMENT TO REPORT NO.

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THIS IS UNEVALUATED INFORMATION

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1. In March 1946 there were two turbines in the hydro-electric power plant in Uglich (57°32' N/38°17' E), Kalinin Oblast. These turbines were in a brick building, 50x60 meters. Below the turbine hall there were several other floors equipped with machinery and extending below the water level.

2. In July 1946, five turbines were available, but only two were in operation. Two million kw were allegedly produced per day.

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3. In May 1947, the power plant had four turbines which were guarded individually. himself did not see the turbines.

4. In November 1947, the power plant was equipped with seven turbines of undetermined output.

5. In May 1948, the plant had six turbines, four of which were in operation.

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25X1 6. seven turbines with a total capacity of 50,000 kw were standing in the turbine hall in June 1948. *

7. In May 1947, the power plant was operating on a makeshift basis. 25X1 had to check on all the cables, repair them or install new ones. The four

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turbines were installed in the northwestern sector of the power plant, while more than 100 transformers, some of them manufactured by Siemens-Schuckert, some of them of Czech origin, had been set up in the central section. The switching installations were in the southeastern section of the plant. Several high-tension lines radiated from there. 25X1

8. The transformer plant was about 150 meters square and consisted of numerous transformers 20 meters high.

9. Five such power plants, so-called Typovoi power plants, were allegedly scheduled for construction in this area. **

10. The reservoir dam was about 600 meters long and 45 meters wide at the bottom and about 25 meters wide at the crest. Its total height was 25 to 30 meters. The difference in the water levels at the concrete dam was about 16 meters.

11. On the western bank was a lock 300 meters long and 30 meters wide. River traffic was heavy. Even yachts from the vicinity of Berlin were observed in 1946.

12. The southern entrance of the lock consisted of a large arch under which the crafts operating on the Volga River could pass. This arch was a conspicuous landmark in the town.

13. The lock chamber measured about 30x300 meters. The height of the lock step was about 16 meters. The chamber was filled in about 25 minutes and discharged in about 30 minutes. The southwestern flood gate was of the drop gate type. The canal was crossed by an arched concrete building, 25x60x60 meters, containing the machinery and switching installations for the pumps and motors. The northeastern lock gate consisted of two steel wings and was crossed by a road bridge eight meters wide. The engine houses from which the lock gate was operated were on both sides of the canal. 25X1

14. The difference of water level overcome by the lock was about 20 meters. ***

25X1 * [redacted] Comment. The original output of the power plant was 110,000 kw with two turbines operating. During the war it was planned to raise the output of the plant to 220,000 kw, a figure which was also [redacted] 25X1
V for May 1948. The installation of a total of seven turbines appears probable, since the attached photograph of the reservoir dam shows seven gates.
25X1 [redacted] The daily output of two million kw appears to be correct for early 1946. From Soviet press reports it appears that the daily power output would be about double this amount after completion of the plant, presumably in late 1950.

25X1 ** [redacted] Comment. The statement that several such power plants are scheduled for construction in this area is not quite clear. Possibly this refers to an enlargement of the power plants in Yaroslavl and Rybinsk. For location of the hydro-electric plant, [redacted] 25X1
25X1 [redacted] agrees with aerial photographs taken during World War II.

25X1 *** [redacted] Comment. The following additional data are available on this plant: According to Soviet press reports, the installations of the power plant extend as far as 32 meters below the water level and the same height above the water. The difference of water level overcome by the lock is 14 meters. 25X1
All the plant installations are operated mechanically so that the service personnel for the entire plant supposedly is only four men.

[redacted]

25X1 [redacted]